	Application No.	Applicant(s)
	Application No.	Applicant(s)
Notice of Allowability	09/819,022	IIVONEN ET AL.
Nouce of Allowability	Examiner	Art Unit
·	Merilyn P Nguyen	2161
The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIG	(OR REMAINS) CLOSED in this app or other appropriate communication GHTS. This application is subject to	olication. If not included will be mailed in due course. THIS
1. This communication is responsive to <u>10/12/2004</u> .		
2. The allowed claim(s) is/are <u>1-30</u> .		
3. \boxtimes The drawings filed on <u>26 March 2001</u> are accepted by the E	Examiner.	
 4.	been received. been received in Application No cuments have been received in this in of this communication to file a reply ENT of this application. itted. Note the attached EXAMINER is reason(s) why the oath or declarate t be submitted. on's Patent Drawing Review (PTO- as Amendment / Comment or in the Comment or in the Comment of BIOLOGICAL MATERIAL in sit of BIOLOGICAL MATERIAL in	complying with the requirements S AMENDMENT or NOTICE OF tion is deficient. 948) attached Office action of the back) of d). nust be submitted. Note the
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/06 Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview Summary Paper No./Mail Dat 8), 7. ☐ Examiner's Amendn	ė

Application/Control Number: 09/819,022

Art Unit: 2161

DETAILED ACTION

1. In response to the communication dated 12/10/2004, claims 1-30 are active in this application as a result of the addition of claims 27-30 and in the condition for allowance. The reasons for allowance are stated in the previous Final Office Action mailed September 24, 2004 and reiterated herein below for convenience.

Acknowledges

- 2. Receipt is acknowledged of the following items from the Applicant.
 - o The applicant's amendments dated 12/10/2004 have been considered.

Allowable subject matter

3. The following is an examiner's statement of reason for allowance:

The prior art of record (Poole, U.S Patent No. 5,276,868, and Namba, U.S Patent No. 5,721,899, and Tikkanen, U.S Patent No. 5,848,416) fails to disclose or suggest the claimed limitations of (in combination with all other features in the claim), implementing a functional memory, wherein memory data is stored as data units for each of which dedicated storage space is assigned in the memory comprising implementing a memory as a directory structure comprising a tree-shaped hierarchy having nodes at several different levels, wherein an individual node is a trie node associated with a logical table and implementing trie nodes as quad nodes of four elements, and replacing in at least part of the directory structure groups of successive nodes by compressed nodes by replacing an individual group comprising a given quad node and its child by a node whose logical table has 16 elements, and forming a

Application/Control Number: 09/819,022

Art Unit: 2161

compressed node known per se from said node of 16 elements by physically storing in the compressed node non-nil pointers and a bit pattern on a basis of which a physical storage location in the compressed node, corresponding to the search word, is determined, in conjunction with the remaining, salient claim provisions as claimed in claim 1. Similar features are claimed in claims 12, 23, and 25; therefore, claims 12, 23, and 25 are allowable over the prior art of record for the same reasons.

Claims 2-11, 13-22, 24, and 26-30 are allowed over the prior art of record, because it is dependent from the allowed base claims.

4. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance".

Conclusion

- 5. A shortened statutory period for response to this action is set to expire 3 (three) months and 0 (zero) day from the day of this letter. Failure to respond within the period for response will cause the application to become abandoned (see M.P.E.P 710.02(b)).
- 6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Bugajski U.S Patent No. 5,592,667 discloses method of storing compressed data for accelerated interrogaration.

Application/Control Number: 09/819,022

Art Unit: 2161

Doeringer U.S Patent No. 5,787,430 discloses variable length data sequence backtracking a trie structure.

Au U.S Patent No. 5,829,004 discloses device for storage and retrieval of compact contigous tree index records.

Soheili-Arasi U.S Patent No. 5,684,976 discloses method for reduced address tags storage within a directory having a tree-like structure.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Merilyn P Nguyen whose telephone number is 571-272-4026.

The examiner can normally be reached on M-F: 8:30 - 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Safet Metjahic can be reached on 571-272-4023. The fax phone numbers for the organization where this application or proceeding is assigned are 703-746-7239 for regular communications and 703-746-7240 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-3900.

Mm

MN

February 2, 2005

FRANTZ COBY PRIMARY EXAMINER